

Claim amendments

1. (currently amended) A device for the exchange of heat,
comprising: having

at least one flow device and at least one collection and/or distribution device connected to the at least one flow device at a connection point, ~~in conjunction with which~~

wherein the at least one flow device ~~exhibits~~ has a flat tubular cross section having one long side and one short side in relation to the long side, as well as a predetermined flow device length, ~~in conjunction with which~~

wherein a fluid under high pressure is capable of flowing through the at least one flow device and the at least one collection and/or distribution device,

wherein the at least one flow device ~~exhibits~~ defines a linear course over the entire length of the flow device along a longitudinal axis of the flow device, ~~and in that~~

wherein the long side of the flat tubular cross section ~~has~~ exhibits a length in the order of ~~approximately 5 mm to 6.1 mm,~~
~~and in particular~~ 5 mm to 5.9 mm, and ~~in that~~

wherein, at the connection point, the long side of the flat tubular cross section of the flow device defines ~~exhibits~~ an angle of approximately 90° in relation to a principal direction of extension of the collection and/or distribution device.

2. (currently amended) A device as claimed in claim 1, wherein the short side of the flat tubular cross section of the flow device ~~has~~ exhibits a length of approximately 1 mm to 2 mm and/or the length of the flow device is approximately 200 mm to 800 mm.

3. (currently amended) A device as claimed in claim 1, wherein the flow device exhibits at least one internal flow channel

running essentially parallel with the longitudinal axis of the flow device, ~~and preferably a plurality of internal flow channels running essentially parallel with the longitudinal axis.~~

4. (currently amended) A device as claimed in claim 3, wherein, in its cross section, the at least one flow channel exhibits a form which is selected from the group of shapes consisting of essentially circular, elliptical, polygonal, ~~or~~ rectangular, ~~or~~ ~~a~~ and combinations thereof ~~combination of mixed forms of these.~~

5. (currently amended) A device as claimed in claim 1, wherein the device exhibits a plurality of the flow devices, each of which is connected to the at least one collection and/or distribution device ~~and/or which~~ and wherein the plurality of flow devices are arranged essentially on at least one level ~~and/or~~ are arranged essentially parallel with one another.

6. (original) A device as claimed in claim 5, wherein the plurality of flow devices are arranged on two levels.

7. (currently amended) A device as claimed in claim 1, wherein the device exhibits comprises two collection and/or distribution devices, of which each is connected to one end of the at least one flow device.

8. (currently amended) A device as claimed in claim 1, wherein the at least one collection and/or distribution device exhibits has a tubular cross section, ~~in conjunction with which~~ and wherein an internal diameter of the tubular cross section of the collection and/or distribution device is approximately equal to

the long side of the flat tubular cross section of the flow device.

9. (currently amended) A device as claimed in claim 1, wherein ~~the fluid flowing through~~ the at least one collection and/or distribution device contains ~~is~~ a cooling medium and/or ~~is under~~ a pressure of approximately 125 bar.

10. (currently amended) A ~~cooler, in particular a gas cooler, and/or an auxiliary heater~~ comprising a device as claimed in claim 1, wherein the cooler ~~and/or the auxiliary heater exhibits~~ has a plurality of the flow devices, each of which is connected to the at least one collection and/or distribution device and/or ~~which are arranged essentially on at least one level and/or are arranged essentially parallel with one another, and in that wherein the cooler and/or the auxiliary heater exhibits further comprises~~ a plurality of ribs, which are arranged between neighboring flow devices essentially perpendicular to the longitudinal direction of the flow device in each case, in order to promote an exchange of heat between the air and the fluid.

11. (currently amended) A device for the air conditioning of air introduced into the interior of a motor vehicle, having at least a compressor, an evaporator and/or auxiliary heater, an expansion valve and a cooler, comprising at least one ~~auxiliary heater and/or a cooler~~ is as claimed in claim 10.

12. (currently amended) A method for producing a device for heat exchange, comprising:

producing a connection at a connection point between at least one flow device and one collection and/or distribution device, which connection is selected from a group consisting of

soldered, welded or adhesive bonded connections, wherein the at least one flow device

~~exhibits has~~ a flat tubular cross section having a long side with a length in the order of ~~approximately~~ 5 mm to ~~6.1 mm,~~ and ~~in particular~~ 5.9 mm, and having a short side in relation to the long side;

exhibits a predetermined flow device length;

accommodates the flow of a fluid under high pressure, and

exhibits a linear course over the entire length of the flow device along a longitudinal axis of the flow device,

wherein a fluid under high pressure is capable of flowing through the at least one collection and/or distribution device, and

wherein, at the connection point, the long side of the flat tubular cross section of the flow device exhibits an angle of approximately 90° in relation to a principal direction of extension of the collection and/or distribution device.

13. (new) A device as claimed in claim 3, wherein the flow device exhibits a plurality of internal flow channels running essentially parallel with the longitudinal axis.

14. (new) A device as claimed in claim 9, wherein the at least one collection and/or distribution device contains a cooling medium under a pressure of approximately 125 bar.